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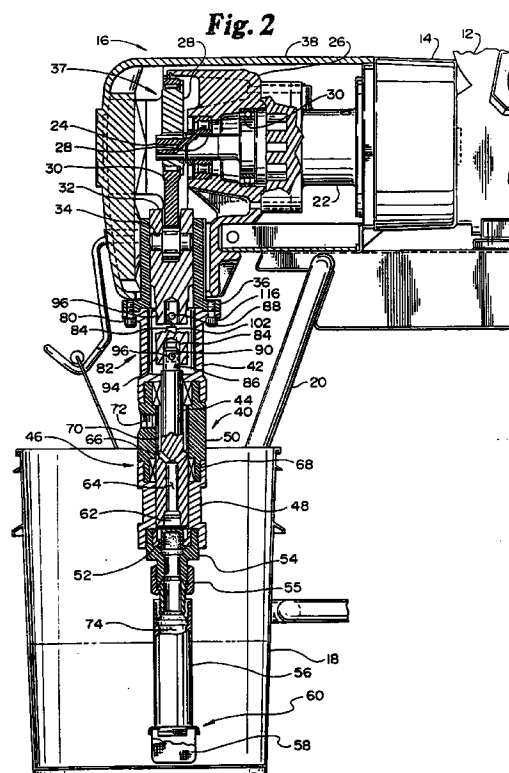
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(54) **Quick-change fluid section for piston-type paint pumps**

(57) An improved quick-change fluid section (40) for piston-type paint pumps (16) having a mounting flange (102) with keyhole shaped apertures (104) at one end and a threaded fitting at the other end to couple a fluid section housing (46) to driving means via a slide housing (36). The piston (44) and slide (32) are retained in reciprocable driving relationship via a transverse pin (92) held in place by a circumferential spring received in a circumferential groove (96) on the slide (32). The spring and pin (92) are accessible via diametrically opposed apertures (104) in the mounting flange (102). The fluid section housing (46) is bifurcated and has sealing means which may be either a packing set of alternating elastomeric and leather V-rings or lip-type seals. The sealing means is immediately available upon separation of the two portions of the fluid section (40) and may be removed without the need for special tools. An inline or right angle inlet or suction fitting (56) may be utilized with the fluid section (40).



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 4 775 303 A (LISKA MIROSLAV) 4 October 1988 * column 3, line 19 - line 62 * * figures 1,4,12 * ---	1,2,5,6, 10-14	F04B5/02 F04B53/14 F04B53/16
A	US 2 644 701 A (FLICK, F. S.) 7 July 1953 * column 2, line 25 - column 3, line 58; figures 1,2 * ---	1,6,7, 14-18	
A	US 4 661 052 A (RUHLE JAMES L) 28 April 1987 * column 3, line 24 - column 4, line 23 * * figure 1 * * column 5, line 20 - line 29 * ---	1-3,6-14	
A	US 4 440 404 A (ROACH JAMES D ET AL) 3 April 1984 * column 1, line 1 - line 55 * * column 3, line 8 - line 17 * ---	1-3,6-14	
A	US 2 982 590 A (GUNNING, A.W.) 2 May 1961 * column 1, line 45 - line 59; figure 1 * ---	1,2,5,6	TECHNICAL FIELDS SEARCHED (Int.Cl.6) F04B
A	US 4 331 339 A (REINSMA HAROLD L) 25 May 1982 * column 1, line 39 - line 46 * * claims 1,5-8,17 * ---	3,4	
A	US 3 827 339 A (ROSEN S ET AL) 6 August 1974 * column 1, line 54 - line 68 * * column 4, line 56 - column 5, line 3 * * figures 1-6 * ---	1	
A	US 4 921 407 A (PONDER MACK) 1 May 1990 * column 6, line 20 - line 41 * * figures 1,2 * -----	1,14	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 September 1997	Examiner Jungfer, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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